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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/547,531	07/31/2006	Kenji Fukui	75772-010500/US	3797	
33717 7590 08/14/2008 GREENBERG TRAURIG LLP (LA) 2450 COLORADO AVENUE, SUITE 400E			EXAM	EXAMINER	
			MENDEZ, Z	MENDEZ, ZULMARIAM	
	TUAL PROPERTY DEPARTMENT ONICA, CA 90404  ART UNIT PAPE			PAPER NUMBER	
			1795		
			MAIL DATE	DELIVERY MODE	
			08/14/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/547,531 FUKUI ET AL.

Office Action Summary	Examiner	Art Unit				
	ZULMARIAM MENDEZ	1795				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. Lettersions of time may be available under the provisions of 37 CFR 1.1  If NO period for reflecting the state of the continuous c	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 31 A	ugust 2005.					
2a) This action is FINAL. 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) <u>1-8</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.						
4a) Or the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
,	·					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date.    Notice of Informal Patent AFF lication					
3) X Information Piech supe Statement(s) (PTP/SE/FR)	5) Notice of Informal F	atent Application				

- Paper No(s)/Mail Date 09/12/2007.

6) Other:

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#### DETAILED ACTION

#### Information Disclosure Statement

1. In the Information Disclosure Statement (IDS) of September 12, 2007 submitted by the applicant, the examiner has considered the cited European Search Report but it has been lined through as it is not a printed publication available to the public, and as such will not be printed on the face of the patent if one is to issue.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Ezzell et
   (US Patent no. 4,265,719).

With regard to claims 1, 5 and 6, Ezzell discloses an electrolysis cell comprising: a structure having at least one inlet channel (32, col. 4, lines 59-61), a first outlet channel (34), and a second outlet channel (128, see figure 1); said structure accommodates a flat proton ion exchange membrane (12, col. 8, lines 10-12) placed in between two flat mesh electrodes (col. 3, lines 66-68; col. 4, line 1; col. 10, lines 61-62; col. 12, lines 21-22); and a power source to apply electricity to said electrodes (col. 4, lines 26-35). Even though Ezzell does not explicitly discloses wherein the inlet and outlets are for intake of water and output of Free Radical Solution water and hydrogen

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rich water, respectively, the last one being degassed for re-use, it is merely the intended use of the apparatus and is not given patentable weight. See MPEP 2111.04

With regard to claim 2, Ezzell further discloses wherein each of said flat mesh electrodes (col. 3, lines 66-68; col. 4, line 1; col. 10, lines 61-62; col. 12, lines 21-22) is comprised of two layers with a first layer having large protuberances and a second layer having smaller protuberances compared with said first layer's larger protuberances (col. 7, lines 20-31).

With regard to claims 3 and 4, Ezzell teaches wherein said first layer with large protuberances is juxtaposed distal away from the proton ion exchange membrane surface (col. 10, lines 21-24) whereas the second layer with smaller protuberances is juxtaposed facing the proton ion exchanged membrane (col. 10, lines 30-32).

With regard to claims 7 and 8, Ezzell discloses a control circuit that adjusts inlet water flow and/or electric power (col. 11, lines 11-23; see also table 1 – variation of current density).

### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ZULMARIAM MENDEZ whose telephone number is (571)272-9805. The examiner can normally be reached on Monday-Thursday, 8:30am-5:00pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexa Neckel can be reached on 571-272-1446. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Z. M./ Examiner, Art Unit 1795

/Alexa D. Neckel/ Supervisory Patent Examiner, Art Unit 1795